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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/929,665

DATE: 01/28/2002

TIME: 16:40:15

Input Set : N:\Crif3\RULE60\09929665.raw

Output Set: N:\CRF3\01282002\I929665.raw

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1 <110> APPLICANT: Bander, Neil H.
2 <120> TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF PROSTATE CANCER
3 <130> FILE REFERENCE: Lois M. Kwasigroch: BZL 242/024
4 <140> CURRENT APPLICATION NUMBER: 09/929,665
5 <141> CURRENT FILING DATE: 2001-08-13
6 <150> PRIOR APPLICATION NUMBER: 09/357,704
7 <151> PRIOR FILING DATE: 1999-07-20
8 <150> PRIOR APPLICATION NUMBER: US 08/838,682
9 <151> PRIOR FILING DATE: 1997-04-09
10 <150> PRIOR APPLICATION NUMBER: US 60/016,976
11 <151> PRIOR FILING DATE: 1996-05-06
12 <150> PRIOR APPLICATION NUMBER: US 60/022,125
13 <151> PRIOR FILING DATE: 1996-07-18
14 <160> NUMBER OF SEQ ID NOS: 21
15 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 391
19 <212> TYPE: DNA
20 <213> ORGANISM: Mus sp.
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23 actggtgaag cctgggactt cagtgaggat atcctgcaag acttctggat acacattcac 120
24 tgaatatacc atacactggg tgaagcagag ccatggaaag agccttgagt ggattggaaa 180
25 catcaatcct aacaatggtg gtaccaccta caatcagaag ttcgaggaca aggccacatt 240
26 gactgtagac aagtcctcca gtacagccta catggagctc cgcagcctaa catctgagga 300
27 ttctgcagtc tattattgtg cagctggttg gaactttgac tactggggcc aaggcaccac 360
28 tctcacagtc tctcagcca aaacgacacc c 391
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31 <211> LENGTH: 391
32 <212> TYPE: DNA
33 <213> ORGANISM: Mus sp.
34 <400> SEQUENCE: 2
35 ggggtgtcgtt ttggctgagg agactgtgag agtgggtgcct tggccccagt agtcaaagtt 60
36 ccaaccagct gcacaataat agactgcaga atcctcagat gttaggctgc ggagctccat 120
37 gtaggctgta ctggaggact tgtctacagt caatgtggcc ttgtcctcga acttctgatt 180
38 gtaggtggta ccaccattgt taggattgat gtttccaatc cactcaaggc tctttccatg 240
39 gctctgcttc acccagtgtg tggatatatc agtgaatgtg tatccagaag tcttgcagga 300
40 tctcctcact gaagtcccag gcttcaccag ttcagggtcca gactgttgca gctggacctc 360
41 agagaggaca cctgcagttc ctagcaggag a 391
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 123
45 <212> TYPE: PRT
46 <213> ORGANISM: Mus sp.

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47 <400> SEQUENCE: 3
48 Ser Pro Val Arg Asn Cys Arg Cys Pro Leu Gly Pro Ala Ala Thr Val
49 1 5 10 15
50 Trp Thr Thr Gly Glu Ala Trp Asp Phe Ser Glu Asp Ile Leu Gln Asp
51 20 25 30
52 Phe Trp Ile His Ile His Ile Tyr His Thr Leu Gly Glu Ala Glu Pro
53 35 40 45
54 Trp Lys Glu Pro Val Asp Trp Lys His Gln Ser Gln Trp Trp Tyr His
55 50 55 60
56 Leu Gln Ser Glu Val Arg Gly Gln Gly His Ile Asp Cys Arg Gln Val
57 65 70 75 80
58 Leu Gln Tyr Ser Leu His Gly Ala Pro Gln Pro Asn Ile Gly Phe Cys
59 85 90 95
60 Ser Leu Leu Leu Cys Ser Trp Leu Glu Leu Leu Leu Gly Pro Arg His
61 100 105 110
62 His Ser His Ser Leu Leu Ser Gln Asn Asp Thr
63 115 120
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 130
67 <212> TYPE: PRT
68 <213> ORGANISM: Mus sp.
69 <400> SEQUENCE: 4
70 Leu Leu Ser Gly Thr Ala Gly Val Leu Ser Glu Val Gln Leu Gln Gln
71 1 5 10 15
72 Ser Gly Pro Glu Leu Val Lys Pro Gly Thr Ser Val Arg Ile Ser Cys
73 20 25 30
74 Lys Thr Ser Gly Tyr Thr Phe Thr Glu Tyr Thr Ile His Trp Val Lys
75 35 40 45
76 Gln Ser His Gly Lys Ser Leu Glu Trp Ile Gly Asn Ile Asn Pro Asn
77 50 55 60
78 Asn Gly Gly Thr Thr Tyr Asn Gln Lys Phe Glu Asp Lys Ala Thr Leu
79 65 70 75 80
80 Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu
81 85 90 95
82 Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Ala Gly Trp Asn Phe
83 100 105 110
84 Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Ala Lys Thr
85 115 120 125
86 Thr Pro
87 130
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 125
91 <212> TYPE: PRT
92 <213> ORGANISM: Mus sp.
93 <400> SEQUENCE: 5
94 Leu Ser Cys Gln Glu Leu Gln Val Ser Ser Leu Arg Ser Ser Cys Asn
95 1 5 10 15
96 Ser Leu Asp Leu Asn Trp Ser Leu Gly Leu Gln Gly Tyr Pro Ala Arg
97 20 25 30

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98      Leu Leu Asp Thr His Ser Leu Asn Ile Pro Tyr Thr Gly Ser Arg Ala
99          35          40          45
100     Met Glu Arg Ala Leu Ser Gly Leu Glu Thr Ser Ile Leu Thr Met Val
101          50          55          60
102     Val Pro Pro Thr Ile Arg Ser Ser Arg Thr Arg Pro His Leu Thr Ser
103          65          70          75          80
104     Pro Pro Val Gln Pro Thr Trp Ser Ser Ala Ala His Leu Arg Ile Leu
105          85          90          95
106     Gln Ser Ile Ile Val Gln Leu Val Gly Thr Leu Thr Thr Gly Ala Lys
107          100          105          110
108     Ala Pro Leu Ser Gln Pro Ser Gln Pro Lys Arg His Pro
109          115          120          125
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 345
113 <212> TYPE: DNA
114 <213> ORGANISM: Mus sp.
115 <400> SEQUENCE: 6
116     gaggtccagc tgcaacagtc tggacctgaa ctggtgaagc ctgggacttc agtgaggata      60
117     tcctgcaaga cttctggata cacattcact gaatatacca tacactgggt gaagcagagc      120
118     catggaaaga gccttgagtg gattggaaac atcaatccta acaatgggtg taccacctac      180
119     aatcagaagt tcgaggacaa ggccacattg actgtagaca agtcctccag tacagcctac      240
120     atggagctcc gcagcctaac atctgaggat tctgcagtct attattgtgc agctgggtgg      300
121     aactttgact actggggcca aggcaccact ctacagctct cctca                      345
123 <210> SEQ ID NO: 7
124 <211> LENGTH: 345
125 <212> TYPE: DNA
126 <213> ORGANISM: Mus sp.
127 <400> SEQUENCE: 7
128     tgaggagact gtgagagtgg tgccttggcc ccagtagtca aagttccaac cagctgcaca      60
129     ataatagact gcagaatcct cagatgttag gctgcgagc tccatgtagg ctgtactgga      120
130     ggacttgtct acagtcaatg tggccttgtc ctcgaacttc tgattgtagg tggtagcacc      180
131     attgttagga ttgatgttcc caatccactc aaggctcttt ccatggctct gcttcaccca      240
132     gtgtatggtg tattcagtga atgtgtatcc agaagtcttg caggatatcc tcaactgaagt      300
133     cccaggcttc accagttcag gtccagactg ttgcagctgg acctc                      345
135 <210> SEQ ID NO: 8
136 <211> LENGTH: 115
137 <212> TYPE: PRT
138 <213> ORGANISM: Mus sp.
139 <400> SEQUENCE: 8
140     Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Thr
141          1          5          10          15
142     Ser Val Arg Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Glu Tyr
143          20          25          30
144     Thr Ile His Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
145          35          40          45
146     Gly Asn Ile Asn Pro Asn Asn Gly Gly Thr Thr Tyr Asn Gln Lys Phe
147          50          55          60
148     Glu Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
149          65          70          75          80

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150      Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
151                      85                      90                      95
152      Ala Ala Gly Trp Asn Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr
153                      100                      105                      110
154      Val Ser Ser
155                      115
157 <210> SEQ ID NO: 9
158 <211> LENGTH: 363
159 <212> TYPE: DNA
160 <213> ORGANISM: Mus sp.
161 <400> SEQUENCE: 9
162      ttatatggag ctgatgggaa cattgtaatg acccaatctc ccaaatccat gtccatgtca      60
163      gtaggagaga gggtcacctt gacctgcaag gccagtgaga atgtgggttac ttatgtttcc      120
164      tgggtatcaac agaaaccaga gcagtctcct aaactgctga tatacggggc atccaaccgg      180
165      tacactgggg tccccgatcg cttcacaggc agtggatctg caacagattt cactctgacc      240
166      atcagcagtg tgcaggctga agaccttgca gattatcact gtggacaggg ttacagctat      300
167      ccgtacacgt tcggaggggg gaccaagctg gaaataaaac gggctgatgc tgcaccaact      360
168      gta      363
170 <210> SEQ ID NO: 10
171 <211> LENGTH: 363
172 <212> TYPE: DNA
173 <213> ORGANISM: Mus sp.
174 <400> SEQUENCE: 10
175      tacagttggt gcagcatcag cccgttttat ttccagcttg gtccccctc cgaacgtgta      60
176      cggatagctg taaccctgtc cacagtgata atctgcaagg tcttcagcct gcacactgct      120
177      gatggtcaga gtgaaatctg ttgcagatcc actgcctgtg aagcgatcgg ggaccccgat      180
178      gtaccggttg gatgccccgt atatcagcag tttaggagac tgctctggtt tctgttgata      240
179      ccaggaaaca taagtaacca cattctcact ggccttgcat gtcaaggatga cctctctccc      300
180      tactgacatg gacatggatt tgggagattg ggtcattaca atgttcccat cagctccata      360
181      taa      363
183 <210> SEQ ID NO: 11
184 <211> LENGTH: 121
185 <212> TYPE: PRT
186 <213> ORGANISM: Mus sp.
187 <400> SEQUENCE: 11
188      Leu Tyr Gly Ala Asp Gly Asn Ile Val Met Thr Gln Ser Pro Lys Ser
189      1                      5                      10                      15
190      Met Ser Met Ser Val Gly Glu Arg Val Thr Leu Thr Cys Lys Ala Ser
191                      20                      25                      30
192      Glu Asn Val Val Thr Tyr Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln
193                      35                      40                      45
194      Ser Pro Lys Leu Leu Ile Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val
195      50                      55                      60
196      Pro Asp Arg Phe Thr Gly Ser Gly Ser Ala Thr Asp Phe Thr Leu Thr
197      65                      70                      75                      80
198      Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Asp Tyr His Cys Gly Gln
199                      85                      90                      95
200      Gly Tyr Ser Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
201                      100                      105                      110

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202      Lys Arg Ala Asp Ala Ala Pro Thr Val
203          115                      120
205 <210> SEQ ID NO: 12
206 <211> LENGTH: 114
207 <212> TYPE: PRT
208 <213> ORGANISM: Mus sp.
209 <400> SEQUENCE: 12
210      Tyr Met Glu Leu Met Gly Thr Leu Pro Asn Leu Pro Asn Pro Cys Pro
211          1                      5                      10                      15
212      Cys Gln Glu Arg Gly Ser Pro Pro Ala Arg Pro Val Arg Met Trp Leu
213          20                      25                      30
214      Leu Met Phe Pro Gly Ile Asn Arg Asn Gln Ser Ser Leu Leu Asn Cys
215          35                      40                      45
216      Tyr Thr Gly His Pro Thr Gly Thr Leu Gly Ser Pro Ile Ala Ser Gln
217          50                      55                      60
218      Ala Val Asp Leu Gln Gln Ile Ser Leu Pro Ser Ala Val Cys Arg Leu
219          65                      70                      75                      80
220      Lys Thr Leu Gln Ile Ile Thr Val Asp Arg Val Thr Ala Ile Arg Thr
221          85                      90                      95
222      Arg Ser Glu Gly Gly Pro Ser Trp Lys Asn Gly Leu Met Leu His Gln
223          100                     105                     110
224      Leu Tyr
226 <210> SEQ ID NO: 13
227 <211> LENGTH: 116
228 <212> TYPE: PRT
229 <213> ORGANISM: Mus sp.
230 <400> SEQUENCE: 13
231      Ile Ile Trp Ser Trp Glu His Cys Asn Asp Pro Ile Ser Gln Ile His
232          1                      5                      10                      15
233      Val His Val Ser Arg Arg Glu Gly His Leu Asp Leu Gln Gly Gln Glu
234          20                      25                      30
235      Cys Gly Tyr Leu Cys Phe Leu Val Ser Thr Glu Thr Arg Ala Val Ser
236          35                      40                      45
237      Thr Ala Asp Ile Arg Gly Ile Gln Pro Val His Trp Gly Pro Arg Ser
238          50                      55                      60
239      Leu His Arg Gln Trp Ile Cys Asn Arg Phe His Ser Asp His Gln Gln
240          65                      70                      75                      80
241      Cys Ala Gly Arg Pro Cys Arg Leu Ser Leu Trp Thr Gly Leu Gln Leu
242          85                      90                      95
243      Ser Val His Val Arg Arg Gly Asp Gln Ala Gly Asn Lys Thr Gly Cys
244          100                     105                     110
245      Cys Thr Asn Cys
246          115
248 <210> SEQ ID NO: 14
249 <211> LENGTH: 321
250 <212> TYPE: DNA
251 <213> ORGANISM: Mus sp.
252 <400> SEQUENCE: 14
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VERIFICATION SUMMARY

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